

Part Number: L-93WSRSGC-CC

SUPER BRIGHT RED
SUPER BRIGHT GREEN

Features

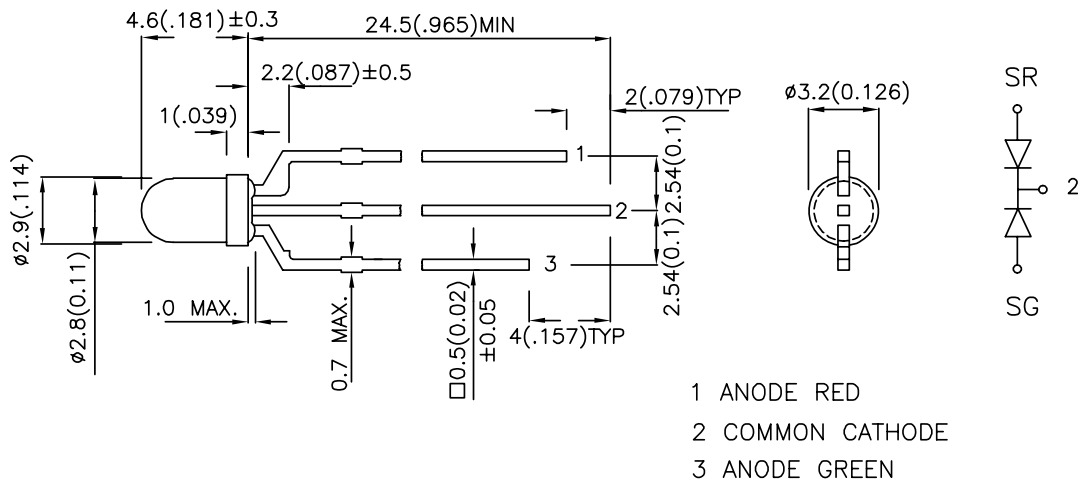
- UNIFORM LIGHT OUTPUT.
- LOW POWER CONSUMPTION.
- 3 LEADS WITH ONE COMMON LEAD.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.
- RoHS COMPLIANT.

Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2 θ 1/2
L-93WSRSGC-CC	SUPER BRIGHT RED (GaAlAs)	WATER CLEAR	180	400	50°
	SUPER BRIGHT GREEN (GaP)		18	70	

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Super Bright Red Super Bright Green	660 565		nm	I _F =20mA
λ _D [1]	Dominant Wavelength	Super Bright Red Super Bright Green	640 568		nm	I _F =20mA
Δλ _{1/2}	Spectral Line Half-width	Super Bright Red Super Bright Green	20 30		nm	I _F =20mA
C	Capacitance	Super Bright Red Super Bright Green	45 15		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Super Bright Red Super Bright Green	1.85 2.2	2.5 2.5	V	I _F =20mA
I _R	Reverse Current	Super Bright Red Super Bright Green		10 10	uA	V _R = 5V

Notes:

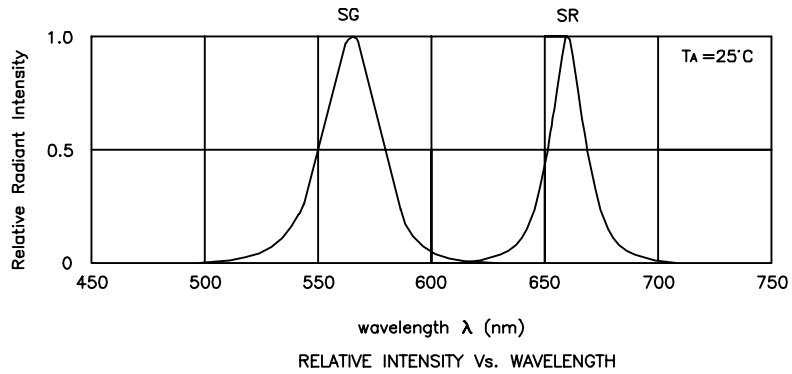
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

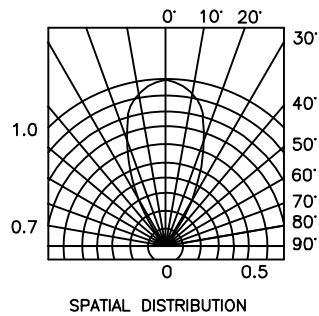
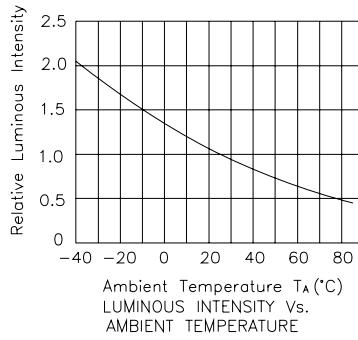
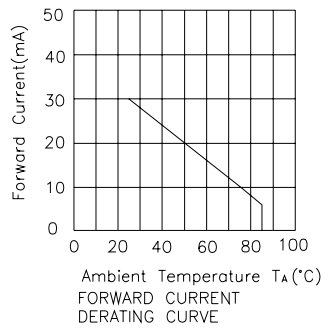
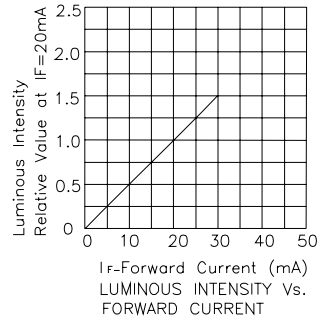
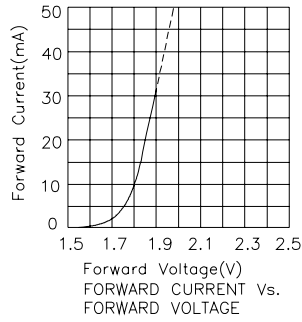
Parameter	Super Bright Red	Super Bright Green	Units
Power dissipation	75	62.5	mW
DC Forward Current	30	25	mA
Peak Forward Current [1]	155	140	mA
Reverse Voltage	5	5	V
Operating / Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.

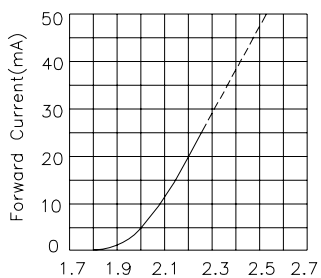


L-93WSRSGC-CC Super Bright Red

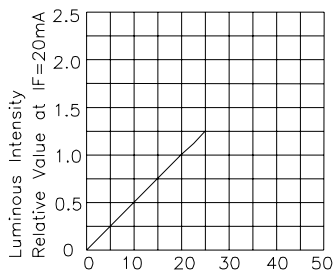


Kingbright

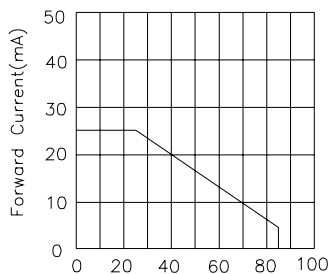
Super Bright Green



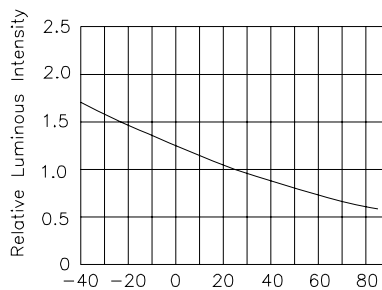
Forward Current(mA)
 FORWARD CURRENT Vs.
 FORWARD VOLTAGE



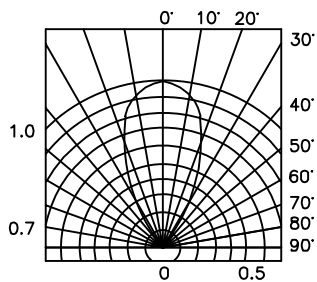
Luminous Intensity
 Relative Value at $I_F=20\text{mA}$
 I_F -Forward Current (mA)
 LUMINOUS INTENSITY Vs.
 FORWARD CURRENT



Forward Current(mA)
 Ambient Temperature T_A (°C)
 FORWARD CURRENT
 DERATING CURVE



Relative Luminous Intensity
 Ambient Temperature T_A (°C)
 LUMINOUS INTENSITY Vs.
 AMBIENT TEMPERATURE



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